

## WIRELESS COMMUNICATION DEVICE

## FIELD OF THE DISCLOSURE

This present disclosure is directed generally to communication devices, and more particularly to a wireless communication device.

## BACKGROUND

When mobile telephones were originally introduced years ago they were housed in a large housing assembly (referred to in common parlance as brick phones). The usefulness of these mobile telephones was rather limited because of their excessive size. Over time, mobile telephones were designed to be smaller in part, due to advances in battery technologies, surface mount components, housing assembly improvements, and related components. Today, mobile phones are very small, such that they fit within the palm of an adult hand.

## BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 depicts a schematic diagram of a wireless communication device of the present disclosure.

FIG. 2 depicts a side view of a wireless communication device of the present disclosure in a closed position.

FIG. 3 depicts a side view of the wireless communication device of FIG. 2 in an open position.

FIG. 4 depicts an exemplary embodiment of a wireless communication device;

FIG. 5 depicts an exemplary method of transmitting a wireless communication using the wireless communication device;

FIG. 6 depicts an exemplary method of receiving a wireless communication using the wireless communication device; and

FIG. 7 depicts an exemplary diagrammatic representation of a machine in the form of a computer system within which a set of instructions, when executed, may cause the machine to perform any one or more of the methodologies disclosed herein.

## DETAILED DESCRIPTION

FIG. 1 depicts an exemplary embodiment of a wireless communication device 100. The communication device 100 can comprise a wireless transceiver 102, a user interface (UI) 104, a global positioning system (GPS) receiver, a power supply 114, and a controller 106 for managing operations thereof. The wireless transceiver 102 utilizes common communication technology that supports access technologies such as cellular, software defined radio (SDR), WiMAX and WiFi. The UI 204 can include a depressible or touch sensitive foldable keypad 108 for manipulating operations of the communication device 100. The UI 204 can further include a foldable display 110 such as monochrome or color LCD (Liquid Crystal Display) for conveying images to the end user of the communication device 100. The audio system 112 of the UI 204 utilizes common audio technology for conveying and intercepting audible signals of an end user of the wireless communication device.

The power supply 114 can utilize common power management technologies (such as replaceable batteries, supply regulation technologies, and charging system technologies) for supplying energy to the components of the wireless communication device 100 to facilitate portable applications. The GPS receiver 116 can utilize common technology for receiving

satellite signals from a constellation of satellites to determine a location coordinate of the wireless communication device 100. The controller 106 can utilize computing technologies such as a microprocessor and/or digital signal processor (DSP) with associated storage memory such as a Flash, ROM, RAM, SRAM, DRAM or other like technologies. The wireless communication device 100 can be configured to be internet capable, blue-tooth compatible, and hearing aide compatible in accordance with ANSI standards.

FIG. 2 depicts an exemplary view of a wireless communication device 200 formed from a first portion 202 and a second portion 206. First and second portions 202, 206 can be pivotably coupled together around hinge 204 so that the first and second portions can be moved between a closed position shown in FIG. 2 and an open position shown in FIG. 3.

FIG. 3 depicts an exemplary view of the wireless communication device 300. The wireless communication device 300 is shown in the open position in which first and second portions 202, 206 open in the direction of arrows 302.

In one embodiment of the present disclosure, as shown in FIG. 4, a wireless communication device 400 can include a housing assembly 402 formed from a first section 404 that is rotatably coupled about an axis 406 to a second section 408 such that the first and second sections 404, 408 are movable between a closed position in which a first side 410 of the first section 404 is aligned with and in close proximity to a first side 412 of the second section 108. The first and second sections 404, 408 are the same as shown in the side view of FIGS. 2 and 3 and identified as 202, 206. The wireless communication device 400 can include a first display screen 414 positioned in the first section 404 and visible through the first side 410 of the first section 404 and can include a second display screen 416 positioned in the second section 408 and visible through the first side 412 of the second section 408. The first and second display screens 414, 416 can be configured to display images, such as, but not limited to text, such as phone numbers, text messages, digital images, video images, and the like. The wireless communication device 400 can also include a keypad 418 including keys 420 on the first section 404 and keys 420 on the second section 408, thereby creating a foldable keypad 418 rotatable about the axis 406 between the first and second sections 404, 408.

In another embodiment of the present disclosure, as shown in FIG. 4, a display 422 can include first and second display screens 414, 416 for incorporation in a wireless communication device 400 for contiguous viewing of images. The display 422 is also shown schematically as display 110 in FIG. 1. The wireless communication device 400 can include a housing assembly 402 formed from a first section 404 that is rotatably coupled about an axis 406 to a second section 408. The first and second display screens 414, 416 can be positioned in the first and second sections 404, 408 of the housing assembly 402 respectively with exposed viewing areas, 424, 426, respectively. The wireless communication device 400 can include a keypad 418 with keys 420 on the first section 404 and keys 420 on the second section 408, thereby creating a foldable keypad 418 rotatable about the axis 406 between the first and second sections 404, 408.

In yet another embodiment of the present disclosure, as shown in FIG. 4 a user interface device 428 can be formed from first and second portions 430, 432 of a keypad 418 for incorporation in a wireless communication device 400 such that the first portion 430 of the keypad 418 can be included in a first section 404 of a housing assembly 402 of the wireless communication device 400, and the second portion 432 of the keypad 418 can be included in a second section 408 of the housing assembly 402. The first and second sections 404, 408